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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,713	03/29/2004	Sotoshi Yamada	250847US2X	9348
22850 7:	590 11/21/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			PATIDAR, JAY M	
1940 DUKE STREET ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2862	

DATE MAILED: 11/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			}}'
	Application No.	Applicant(s)	
	10/810,713	YAMADA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jay M. Patidar	2862	
The MAILING DATE of this communication app	pears on the cover sheet with	the correspondence address	••
Period for Reply	VIO CET TO EVOIDE A MO	NTU(O) OD TUUDTY (OO) DA	VO
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D.  Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a rep will apply and will expire SIX (6) MONTHE, cause the application to become ABAI	ATION.  by be timely filed  IS from the mailing date of this communic  NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	,		
·	action is non-final.		
3) Since this application is in condition for allowa	nce except for formal matter	s, prosecution as to the merit	ts is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application			
4a) Of the above claim(s) is/are withdra			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-13</u> is/are rejected.		•	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc		the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s)	is objected to. See 37 CFR 1.13	21(d).
11) ☐ The oath or declaration is objected to by the Ex	xaminer. Note the attached (	Office Action or form PTO-15	2.
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document	ts have been received in App	olication No	
3. Copies of the certified copies of the prior	rity documents have been re	eceived in this National Stage	•
application from the International Burea			
* See the attached detailed Office action for a list	of the certified copies not re	eceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Su	mmary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/	Mail Date	
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>03/29/04</u>.</li> </ol>	5)  Notice of Info 6) Other:	omal Patent Application (PTO-152)	

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1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

2. Claims 1,6,9 are objected to because of the following informalities:

In claim 1, line 12, the phrase "newly from" does not make sense; perhaps applicant intends to delete "newly".

In claims 6,9, it is unclear as to what is the difference between a chip substrate and at least one thin-film chip; the thin film chip is not clearly defined; Appropriate correction is required.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyagoshi ("AU" publication on PTO-1449) in view of Tiernan et al. (6,150,809).

Miyagoshi discloses all of the invention except for the use of a giant magnetoresistive or MR as an eddy current sensing element. Miyagoshi

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discloses the use of a coil as a pick up (Note whole document). Tiernan is cited to show this feature. Tiernan teaches a giant magnetoresistive element as an eddy current sensing element (note whole document). Consequently, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Miyagoshi to use a giant magnetoresistive element as an eddy current sensor as taught by Tiernan to enhance the sensitivity of the device.

As to claims 3-5, the use of multilayered film of GMR is common place in the related art.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Note PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jay M. Patidar whose telephone number is 571-272-2265. The examiner can normally be reached on M-Thur 7:00-5:30.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jay M. Patidar Primary Examiner Art Unit 2862

Email: Jay.Patidar@USPTO.gov

November 14, 2005